



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/561,106

12/16/2005

Franz Knauseder

1469-053129

1988

28289 7590 02/25/2008

THE WEBB LAW FIRM, P.C.
700 KOPPERS BUILDING
436 SEVENTH AVENUE
PITTSBURGH, PA 15219

EXAMINER

FIGUEROA, ADRIANA

ART UNIT

PAPER NUMBER

3633

MAIL DATE

DELIVERY MODE

02/25/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/561,106	Applicant(s) KNAUSEDER, FRANZ	
	Examiner Adriana Figueroa	Art Unit 3633	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 November 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 26-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 26-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08/02/ 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species 2 of the "lateral wall arrangement", Species 2 of the "locking elements and Species 2 of the "groove and tongue connection" in the reply filed on 11/16/2007 is acknowledged.

Claim Objections

2. Claim 34 is objected to because of the following informalities: claim 34 in line 2, the phrase "perpendicular grooves" is incorrect, this should be "perpendicular groove". Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 26-28, 33-35, 46-51 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claims 26, 33 and 46 recites the limitation "the surface" in lines 6, 7. There is insufficient antecedent basis for this limitation in the claim.

5. Regarding claim 40, it is unclear how "the bottom surface of a lateral tongue forms a flat surface with the bottom side of a vertical locking element". According to the disclosure, "the bottom surface of a lateral tongue forms a flat surface with the bottom

side of the vertical locking element". For examination purposes, the examiner will consider this limitation as "the bottom surface of a lateral tongue forms a flat surface with the bottom side of the vertical locking element".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 26-34, 46-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over German Patent (WO 2002/103135 A1). Konzelmann (US 2004/0168392 A1) is being used as a translation of the German patent and all the figures and paragraphs used as reference in the rejection are from this patent.

Regarding claim 26, German Patent discloses a structure comprising of at least first (1), second (2) and third identical boards, (Figure 1), having laterally mounted locking elements (5, 6), (Figure 1), wherein the locking elements are made in such a way that simultaneously, by displacing the first board (1) relative to the second board (2) along a first common joint (4), the first board can be connected with the second board in a positive fit along the first common connecting joint, both in a perpendicular direction relative to the surface of the board, as well as in a parallel direction relative to the surface (3) of the board, and, at the same time, in a perpendicular direction relative to the first common joint (4), and the first board (1) can be connected with a third board in

a positive fit along a second common connecting joint (j), at least in a perpendicular direction relative to the surface of the board, (Figure 1).

Regarding claim 27, German Patent discloses a structure having all or some of the locking elements (5, 6) are made in such a way that the displacement can take place exclusively in one plane that is parallel relative to the surface (3) of the boards, (Figure 1), (Paragraph 56).

Regarding claim 28, German Patent discloses the first common connecting joint (4) runs in a perpendicular direction relative to the second common connecting joint (j), (annotated Figure 1).

Regarding claim 29, German Patent discloses boards (1, 2) having laterally mounted locking elements (5, 6) with which two boards can be connected with each other laterally in an adhesive-free manner by positive fit, wherein the locking elements (5, 6) are made in such a manner, that there is an initial position into which the boards can exclusively be brought by lowering in a vertical direction, wherein a common joint (4) is formed between the boards in which a play occurs, and there is a final position in which the boards (1, 2) are interlocked by positive fit in a vertical direction and in which no play occurs at the common joint (4) and wherein the panels may be connected with each other in an adhesive-free manner, (Figure 1), (Paragraph 56-58).

Regarding claim 30, German Patent discloses boards (1, 2) that may be brought from the initial position into the final position by displacement along the common joint (4), (Figure 1), (Paragraph 56).

Regarding claim 31, German Patent discloses the boards (1, 2) having the locking elements (5, 6) being such that the boards can be brought into the initial position when, along the common connecting joint (4), they are arranged offset relative to one another by more than 50% and less than 100%, (Figure 1), (Paragraph 56).

Regarding claim 32, German Patent discloses the boards (1, 2) having an intermediate position in which the boards at least in vertical direction, are interlocked by positive fit and in which a play occurs at the common joint (4) of the two boards, (Paragraph 56).

Regarding claim 33, German Patent discloses boards (1, 2), wherein as a locking element has a perpendicular groove (s) that is inserted in a perpendicular direction relative to a surface (3), and the other board has at least a corresponding protruding perpendicular locking element (r) which arrives in the perpendicular groove when the boards are in the initial position, wherein the perpendicular groove and a lateral boundary of the perpendicular groove (s), at least in part, have a course that does not run parallel relative to the common joint (4), and the perpendicular locking element (r) and a lateral boundary of the perpendicular locking element at least in part have such a course that does not run parallel relative to the common joint (4), (annotated Figure 1).

Regarding claim 34, German Patent discloses boards (1, 2) wherein, in the final position, a lateral boundary (10) of the perpendicular groove (s) adjoins a lateral boundary (16) of the perpendicular locking element (r) intimately, (annotated Figure 1).

Claims 35-37, 39-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over German Patent (WO 2002/103135 A1) in view of McBurney (US 2,016,382).

Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over German Patent (WO 2002/103135 A1) in view of McBurney (US 2,016,382). German Patent discloses boards (1, 2) as discussed above, but does not disclose at least one lateral boundary of the perpendicular groove and a lateral boundary of the perpendicular locking element is formed wedge-shaped, in particular has such a course relative to the common joint that the distance to the common joint decreases or increases along the joint in a linear manner. However, McBurney teaches at least one lateral boundary of the perpendicular groove (12) and a lateral boundary of the perpendicular locking element (13) is formed wedge-shaped, in particular has such a course relative to the common joint (j) that the distance to the common joint decreases or increases along the joint in a linear, (annotated Figure 5). Therefore, it would have been obvious to substitute the locking elements of German Patent with the locking elements of McBurney since this would have yielded predictable results, which is an interlocking action to one of ordinary skill in the art at the time of the invention such as interlocking floor boards.

Regarding claim 36, German Patent discloses boards (1, 2) wherein, at least one lateral wall (16) of a groove (7) that is provided as a locking element runs in an arched, wave-like, serpentine or sawtooth-like manner, (Figure 1), (Paragraph 68).

Regarding claim 37, German Patent discloses boards (1, 2) wherein there is at least one contact area (walls 10, 16) between two locking elements (7, 9) which area runs in a perpendicular direction relative to the surface (3), (Figure 1).

Regarding claim 38, German Patent discloses boards (1, 2) wherein there is at least one contact area between two locking elements (7, 9) formed by undercuts, (Figure 1).

Regarding claim 39, German Patent discloses boards (1, 2) wherein one board laterally has, as a locking element, at least one groove (5) and another board laterally has at least one tongue (6), (Figure 1).

Regarding claim 40, as best understood, German Patent discloses boards (1, 2) wherein the bottom surface (a) of a lateral tongue (p) forms a flat surface with the bottom side (b) of a vertical locking element (r), (annotated Figure 1).

Regarding claim 41, German Patent discloses boards (1, 2) wherein a bottom groove-cheek (c) of a lateral groove (q) forms a flat surface with the bottom (d) of the perpendicular groove (s), (annotated Figure 1).

Regarding claim 42, German Patent discloses boards (1, 2) that can be connected by means of a paste or, in particular an adhesive between two interlocked boards, (Paragraph 72).

Regarding claim 43, German Patent discloses boards (1, 2), having a moisture repellant paste or adhesive mass between two boards which adjoins the surface of the boards, (Paragraph 46).

Regarding claims 44 and 45, German Patent discloses boards (1, 2), wherein the boards are laminate flooring panels, (Figure 1), (Paragraphs 3, 80).

Regarding claim 46, German Patent discloses a method for connecting at least first, second and third boards with laterally mounted locking elements (5, 6) , in particular of boards comprising the steps of: displacing the first board (1) relative to the second board (2) along a first common connecting joint (4), wherein simultaneously the first board being connected with the second board in a positive fit along the first common connecting joint, both in a perpendicular direction relative to the surface of the board, and in a parallel direction relative to the surface of the board, and, at the same time, in a perpendicular direction relative to the first common connecting joint, and the first board capable of being connected with the third board in a positive fit along a second common connecting joint (a), at least in a perpendicular direction relative to the surface of the board, (annotated Figure 1), (Paragraph 55).

Regarding claim 47, German Patent discloses a method wherein the displacement occurs exclusively in one plane parallel relative to the surface (3) of the board, (Paragraph 56).

Regarding claim 48, German Patent discloses a method wherein the first connecting joint (4) runs in a perpendicular direction relative to the second common connecting joint (a), (annotated Figure 1).

Regarding claim 49, German Patent discloses a method for connecting at least first (1) and second (2) boards with laterally mounted locking elements (5, 6), wherein two of the boards being connected laterally by positive fit in an adhesive-free manner,

Art Unit: 3635

comprising the following steps: bringing the boards into an initial position, in particular, exclusively by lowering in a vertical direction, wherein a common joint (4) is formed between the boards in which a play occurs, and bringing the boards into a final position, in which the boards are interlocked in a vertical direction by positive fit, and in which no play occurs at the common joint (4) and the panels are connected in an adhesive-free manner, (Figure 1), (Paragraphs 56-59).

Regarding claim 50, German Patent discloses a method wherein the boards (1, 2) are brought from the initial position into the final position by displacement along the common connecting joint (4), (Paragraph 56).

Regarding claim 51, German Patent discloses a method wherein the locking elements (5, 6) are such that the boards can be brought into the initial position when, along the common connecting joint (4), they are arranged offset relative to one another by more than 66% and less than 80%, (Paragraph 56).

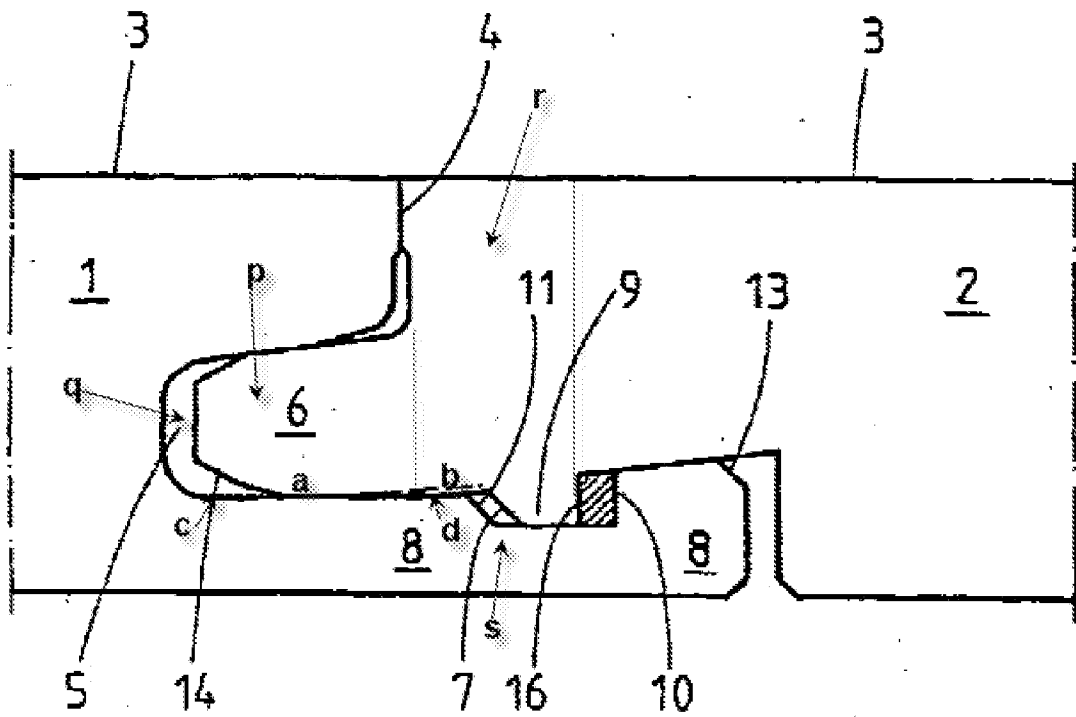


FIGURE 1, Konzelmann (US 2004/0168392 A1)

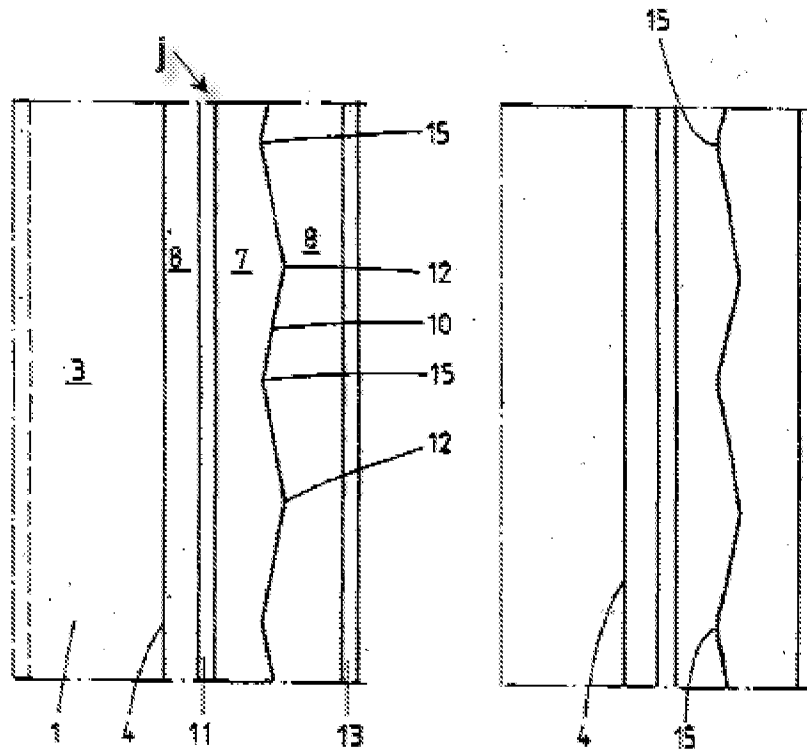


FIG. 1

Konzelmann (US 2004/0168392 A1)

Response to Arguments

7. Applicant's arguments, see Remarks, filed 08/02/2007, with respect to the rejection(s) of claim(s) 26-51 under Thiers have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Konzelmann.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adriana Figueroa whose telephone number is 571-272-8281. The examiner can normally be reached on Monday-Friday 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on 571-272-6843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Richard E. Chilcot/
Supervisory Patent Examiner, Art
Unit 3635

/A. F./
Examiner, Art Unit 3633
02/16/2008

